

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior listings of claims in the application:

1-30. (Cancelled).

31. (Previously Presented) An indwelling analyte sensor, comprising:

an electrochemically active surface;

at least two nubs of dielectric material extending outwardly from said electrochemically active surface and forming a cavity along said electrochemically active surface and between said at least two nubs; and

a membrane system comprising an enzyme layer, said enzyme layer surrounding said at least two nubs and said electrochemically active surface at least along said cavity.

32. (Previously Presented) An indwelling analyte sensor, comprising:

an electrochemically active surface defining a sensing region along a portion of said electrochemically active surface;

a plurality of nubs of dielectric material extending outwardly from said electrochemically active surface, said plurality of nubs spaced along said electrochemically active surface; and

a membrane system comprising an enzyme layer, said enzyme layer surrounding said sensing region of said electrochemically active surface to form an active sensing region and surrounding said plurality of nubs.

33. (Previously Presented) The sensor of claim 32, wherein said electrochemically active surface extends through at least two of said plurality of nubs.

34. (Previously Presented) The sensor of claim 32, wherein said membrane system defines a substantially catenary curve-shaped surface between at least two of said plurality of nubs.

35. (Previously Presented) The sensor of claim 32, wherein said membrane system has an outer surface and said outer surface defines a concave curve curving toward said electrochemically active surface between at least two of said plurality of nubs.

36. (Cancelled).

37. (New) The sensor of claim 31, wherein at least one of said at least two nubs is in the form of a plate.

38. (New) The sensor of claim 31, wherein at least one of said at least two nubs comprises an annular plate.

39. (New) The sensor of claim 31, wherein said electrochemically active surface is defined as part of a lengthwise body.

40. (New) The sensor of claim 39, wherein said lengthwise body is circular in cross-section.

41. (New) The sensor of claim 31, wherein at least one of said at least two nubs is displaced longitudinally from said electrochemically active surface.

42. (New) The sensor of claim 31, wherein said membrane system includes multiple membranes.

43. (New) The sensor of claim 31, wherein said membrane system defines an external surface of said sensor.

44. (New) The sensor of claim 32, wherein at least one of said at least two nubs is in the form of a plate.

45. (New) The sensor of claim 32, wherein at least one of said at least two nubs comprises an annular plate.

46. (New) The sensor of claim 32, wherein said electrochemically active surface is defined as part of a lengthwise body.

47. (New) The sensor of claim 46, wherein said lengthwise body is circular in cross-section.

48. (New) The sensor of claim 32, wherein at least one of said at least two nubs is displaced longitudinally from said electrochemically active surface.

49. (New) The sensor of claim 32, wherein said membrane system includes multiple membranes.

50. (New) The sensor of claim 32, wherein said membrane system defines an external surface of said sensor.